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Technical Data Sheet

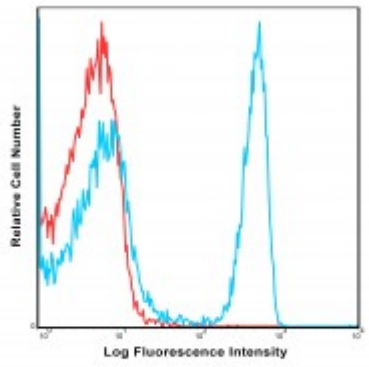
Anti-Human CD4 PerCP-Cyanine5.5

Catalogue Number : 06111-70

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: OKT4
Format/Conjugate: PerCP-Cyanine5.5
Concentration: 5 uL (0.25 ug)/test
Reactivity: Human
Laser: Blue (488nm)
Peak Emission: 695nm
Peak Excitation: 482nm
Filter: 695/40
Brightness (1=dim,5=brightest): 3
Isotype: Mouse IgG2b, kappa
Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.
Applications: FC



Human peripheral blood lymphocytes were stained with PerCP-Cy5.5 OKT4 with relevant isotype control in Red.

Description

The OKT4 monoclonal antibody specifically binds to the CD4 receptor for the human immunodeficiency virus (HIV). CD4 is a 59 kDa single-chain transmembrane glycoprotein that expressed on the surface of most of the thymocytes, T-helper cells, and in low levels on monocytes and macrophages. CD4 is a co-receptor in the antigen-induced T cell activation (together with the MHC class II). The OKT4 and the RPA-T4 monoclonal antibodies recognize different epitopes of CD4 and they do not exhibit cross-block binding.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1.Reinherz, E. L., Kung, P. C., Goldstein, G., Schlossman, S. F. (1979). Separation of functional subsets of human T cells by a monoclonal antibody.Proceedings of the National Academy of Sciences,;76(8), 4061-4065.

2. ;Knapp W;(1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.

3. Bour, S. T. E. P. H. A. N. E., Boulerice, F. R. A. N. C. O. I. S., Wainberg, M. A. (1991). Inhibition of gp160 and CD4 maturation in U937 cells after both defective and productive infections by human immunodeficiency virus type 1.Journal of virology,;65(12), 6387-6396.

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